AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended): An irradiation apparatus for photodynamic therapy ~~comprising,~~ comprising

a discharge lamp which has a function to emit light ~~having~~ in the wavelength region ~~of~~ where there is the main absorption ~~within the range of the wavelengths of 600nm-800nm~~ of a photosensitizer between 600nm and 800nm, where said discharge lamp is filled with 0.1 μmol/cm^3 or more of at least one selected from the group consisting of lithium (Li), sodium (Na), rubidium (Rb), and potassium (K) as an emitting element~~, wherein tin or rare-earth metal is not filled~~, and further filled with at least one rare gas selected from the group consisting of neon (Ne), argon (Ar), krypton (Kr) and xenon (Xe)~~, and~~ ; and

a lighting system capable of applying a light radiated from the discharge lamp to a photosensitizer having a relatively large absorption coefficient within the range of the wavelengths of 600nm-800nm, where the lighting system includes a filter that cuts out light of a wavelength greater than 800nm and light of a wavelength less than 600nm.

Claim 2 (Currently Amended): The irradiation apparatus for photodynamic therapy of Claim 1, wherein lithium (Li) is filled as the emitting element for radiating the lights of 600nm-640nm, and 660nm-720nm of the wavelength region of the main absorption of a photosensitizer.

Claim 3 (Currently Amended): The irradiation apparatus for photodynamic therapy of Claim 1, wherein sodium (Na) is filled as the emitting element for radiating the light of 600nm-640nm of the wavelength region of the main absorption of a photosensitizer.

Claim 4 (Currently Amended): The irradiation apparatus for photodynamic therapy of Claim 1, wherein rubidium (Rb) is filled as the emitting element for radiating the light of 755nm-800nm of the wavelength region of the main absorption of a photosensitizer.

Claim 5 (Currently Amended): The irradiation apparatus for photodynamic therapy of Claim 1, wherein potassium (K) is filled as the emitting element for radiating the light of 760nm-800nm of the wavelength region of the main absorption of a photosensitizer.

Claim 6 (Previously Presented): The irradiation apparatus for photodynamic therapy of Claim 1, wherein at least two elements selected from the group consisting of lithium (Li), sodium (Na), rubidium (Rb) and potassium (K) are filled as the emitting elements.

Claim 7 (Previously Presented): The irradiation apparatus for photodynamic therapy of Claim 1, wherein mercury (Hg) is further filled for increasing line in the emission spectrum of said lithium (Li), sodium (Na), rubidium (Rb), and potassium (K).

Claim 8 (Currently Amended): An irradiation apparatus for photodynamic therapy or photodynamic diagnosis ~~comprising,~~ comprising

a discharge lamp which has a function to emit light ~~having~~ in the wavelength region ~~of~~ where there are the main absorption ~~within the range of the wavelength~~ of a photosensitizer between 600nm-800nm and ~~also emit light having the wavelength region of the main absorption within the range of the wavelength of~~ 400nm-440nm, where said discharge lamp is filled with 0.1 μmol/cm^3 or more of at least one selected from the group consisting of lithium (Li), sodium (Na), rubidium (Rb), and potassium (K), and 0.1 μmol/cm^3 or more of mercury (Hg) as an emitting element~~, wherein tin or rare-earth metal is not filled~~, and further filled with at least one rare gas selected from the group consisting of neon (Ne), argon (Ar), krypton (Kr) and xenon (Xe)~~, and a means for selecting a wavelength which transmits selectively a light of a wavelength suitable to the wavelength range of absorption of~~; and

a lighting system capable of applying a light radiated from the discharge lamp to a photosensitizer having a relatively large absorption coefficient within the range of the wavelength of 600nm-800nm, ~~and a light of a wavelength suitable to a photosensitizer, which absorbs light within the range of the wavelength of 400nm-440nm, and emits fluorescence, and a lighting system capable of applying a light radiated from the discharge lamp to the photosensitizers~~ where the lighting system includes a filter, which in the case of the photodynamic therapy cuts out light of a wavelength greater than 800nm and light of a wavelength less than 600nm and which in the case of the photodynamic diagnosis transmits only light in the vicinity of 405nm and cuts out light of shorter or longer wavelengths.

Claim 9 (Currently Amended): The irradiation apparatus for photodynamic therapy or photodynamic diagnosis of Claim 8, wherein lithium (Li) is filled as the emitting element for radiating the lights of 600nm-640nm, and 660nm-800nm of the wavelength region of the main absorption of a photosensitizer.

Claim 10 (Currently Amended): The irradiation apparatus for photodynamic therapy or photodynamic diagnosis of Claim 8, wherein sodium (Na) is filled as the emitting element for radiating the light of 600nm-700nm of the wavelength region of the main absorption of a photosensitizer.

Claim 11 (Currently Amended): The irradiation apparatus for photodynamic therapy or photodynamic diagnosis of Claim 8, wherein rubidium (Rb) is filled as the emitting element for radiating the light of 755nm-800nm of the wavelength region of the main absorption of a photosensitizer.

Claim 12 (Currently Amended): The irradiation apparatus for photodynamic therapy or photodynamic diagnosis of Claim 8, wherein potassium (K) is filled as the emitting element for radiating the light of 760nm-800nm of the wavelength region of the main absorption of a photosensitizer.

Claim 13 (Previously Presented): The irradiation apparatus for photodynamic therapy or photodynamic diagnosis of Claim 8, wherein at least two selected from the group consisting of lithium (Li), sodium (Na), rubidium (Rb) and potassium (K) are filled as the emitting elements.

Claim 14 (Previously Presented): The irradiation apparatus for photodynamic therapy of Claim 1, wherein halogen is also filled into said discharge lamp.

Claim 15 (Previously Presented): The irradiation apparatus for photodynamic therapy or photodynamic diagnosis of Claim 8, wherein halogen is also filled into said discharge lamp.

Claims 16-20 (Canceled)